

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US03/06580

A. CLASSIFICATION OF SUBJECT MATTER		
IPC(7) : F25B 9/00		
US CL : 62/6, 324.1, 160		
According to International Patent Classification (IPC) or to both national classification and IPC		
B. FIELDS SEARCHED		
Minimum documentation searched (classification system followed by classification symbols) U.S. : 62/6, 324.1, 160		
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched None		
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) None		
C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y,P	US 6,397,605 B1 (PUNDAK) 04 June 2002 (04.06.2002), see abstract and col 2 lines 47-54.	1,8,9,11,12
Y	US 6,094,921 A (ZHU et al) 01 August 2000 (01.08.2000), see figures 6,9 and 11.	1,8,9,11,12
Y	US 6,308,520 B1 (INOUE et al) 30 October 2001 (30.10.2001), see figure 10.	9
Y	US 4,485,631 A (WINKLER) 04 December 1984 (04.12.1984), see entire document.	11,12
A	US 6,205,792 B1 (ANDERSON) 27 March 2001 (27.03.2001), see entire document.	1-12
A	US 6,301,902 B1(ZHU et al) 16 October 2001 (16.10.2001), see entire document.	1-12
<input type="checkbox"/> Further documents are listed in the continuation of Box C. <input type="checkbox"/> See patent family annex.		
* Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier application or patent published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art "&" document member of the same patent family		
Date of the actual completion of the international search 11 June 2003 (11.06.2003)		Date of mailing of the international search report 11 JUL 2003
Name and mailing address of the ISA/US Mail Stop PCT, Attn: ISA/US Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450 Facsimile No. (703)305-3230		Authorized officer William C Doerrler <i>William C Doerrler</i> Telephone No. (703) 308-0861